

1a SUBSTRATE

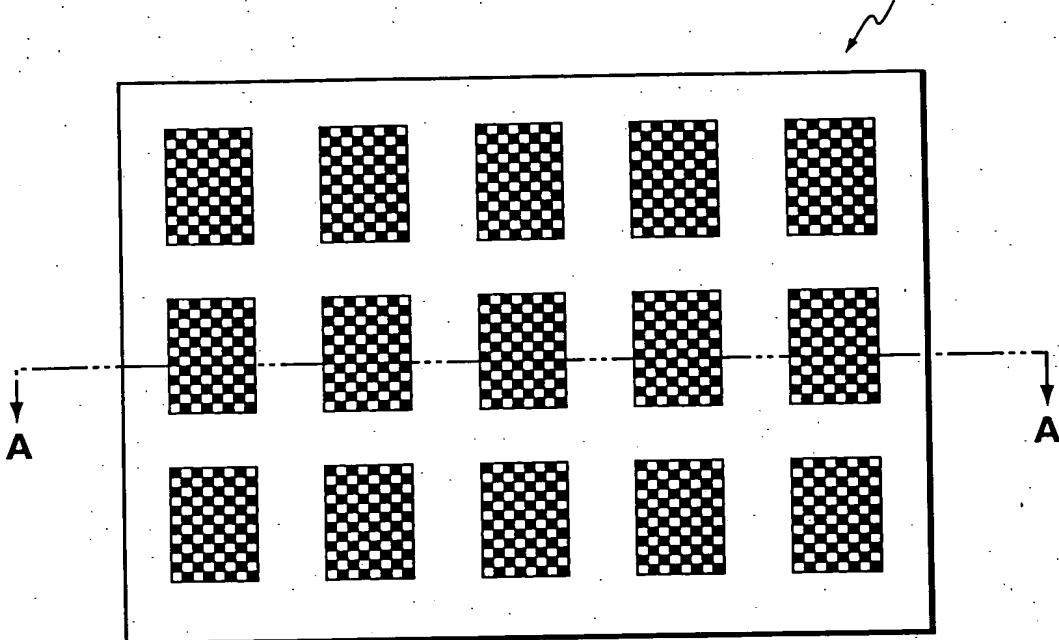


FIG. 1A

1a SUBSTRATE



PATTERN FORMATION REGION 10

PATTERN FORMATION REGION 11

FIG. 1B

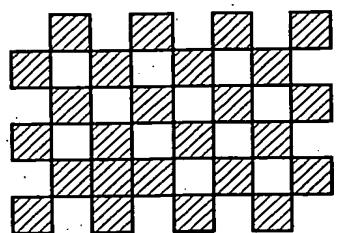


FIG. 2A

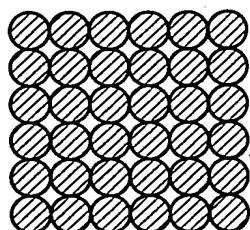


FIG. 2B

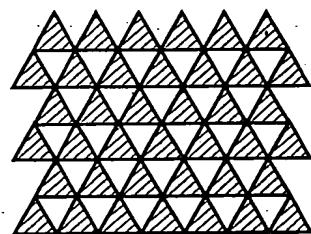


FIG. 2C

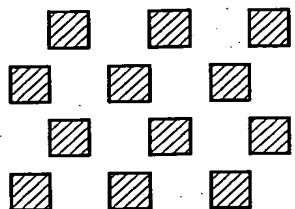


FIG. 2D

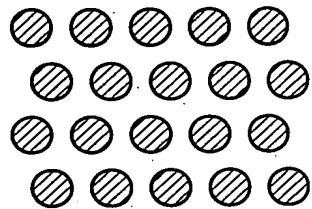


FIG. 2E

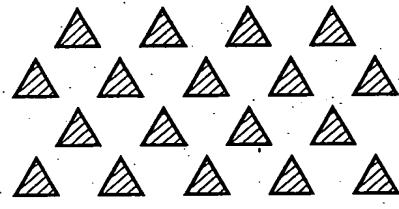


FIG. 2F

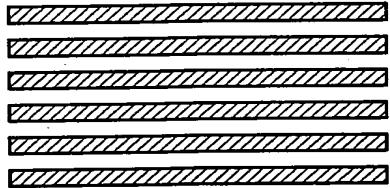


FIG. 2G

■ AFFINITY REGION 110
□ NON-AFFINITY REGION 111

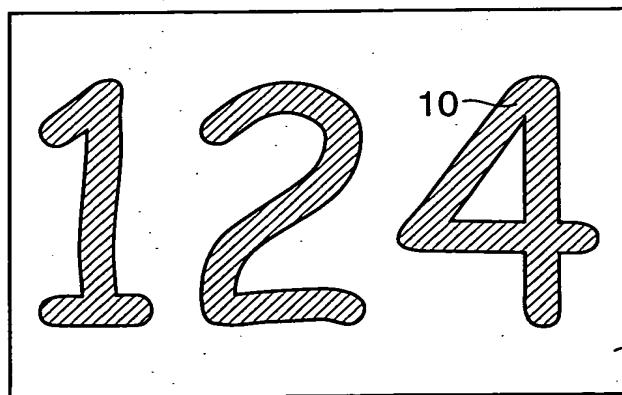


FIG. 3

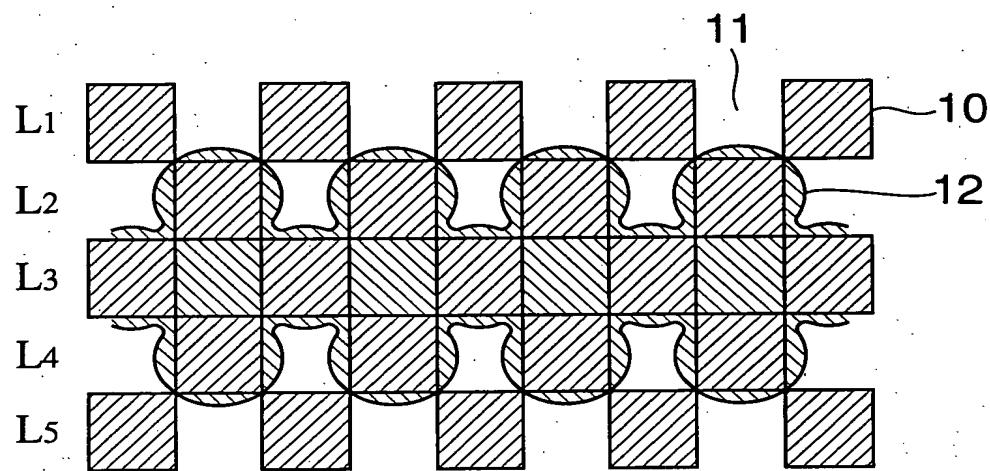


FIG. 4A

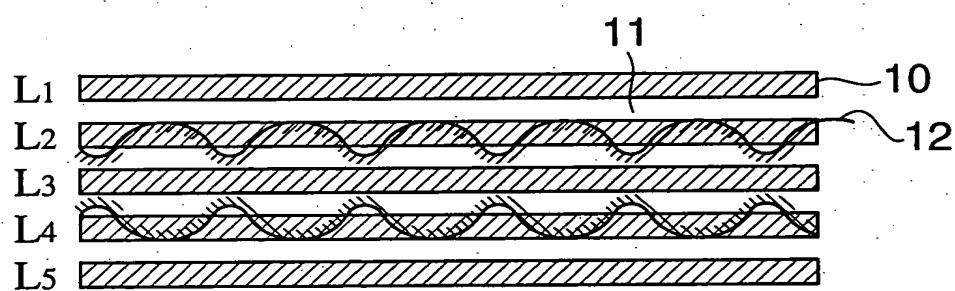


FIG. 4B

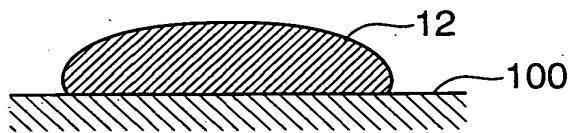


FIG. 5A

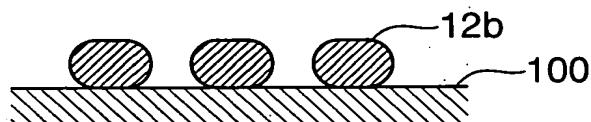


FIG. 5B

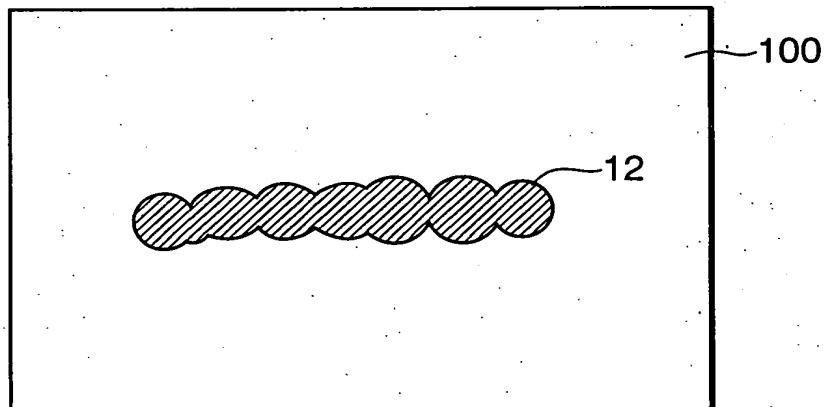


FIG. 6A

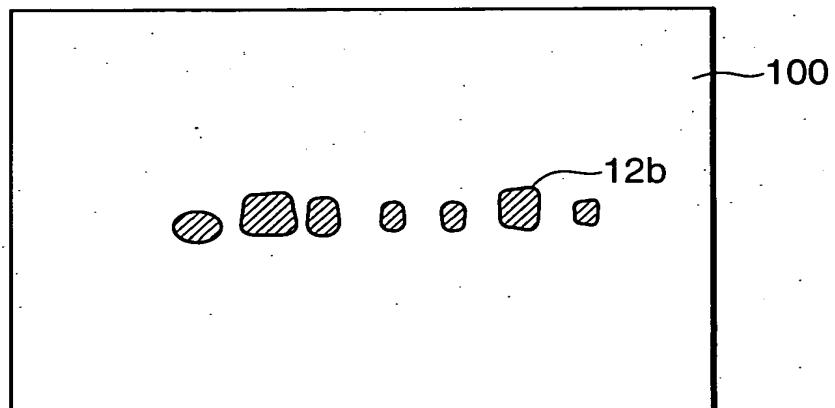


FIG. 6B

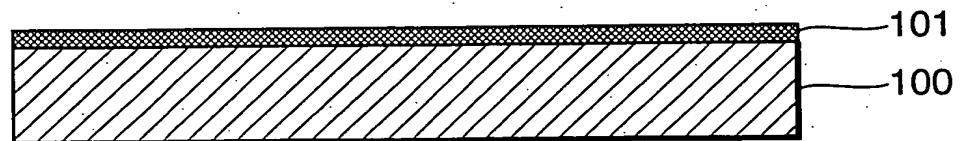


FIG. 7A

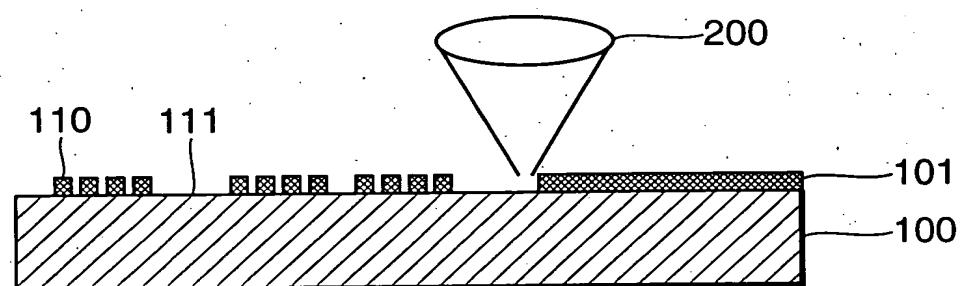


FIG. 7B

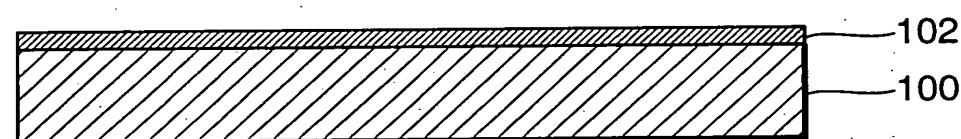


FIG. 8A

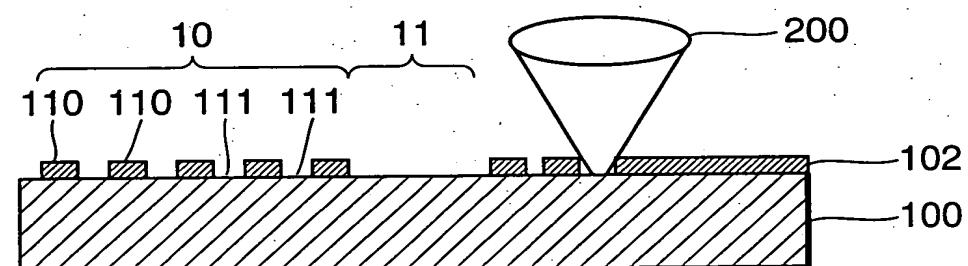


FIG. 8B

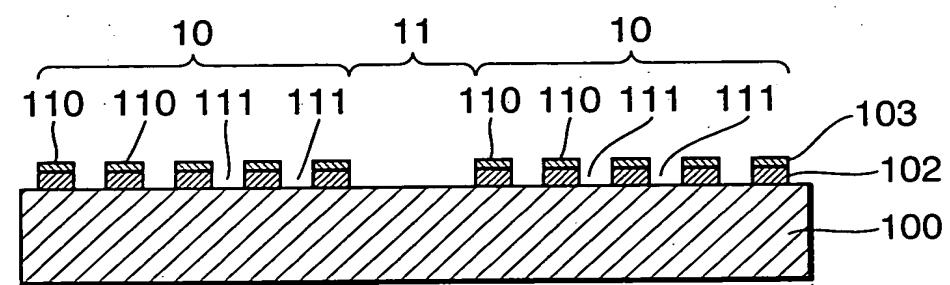
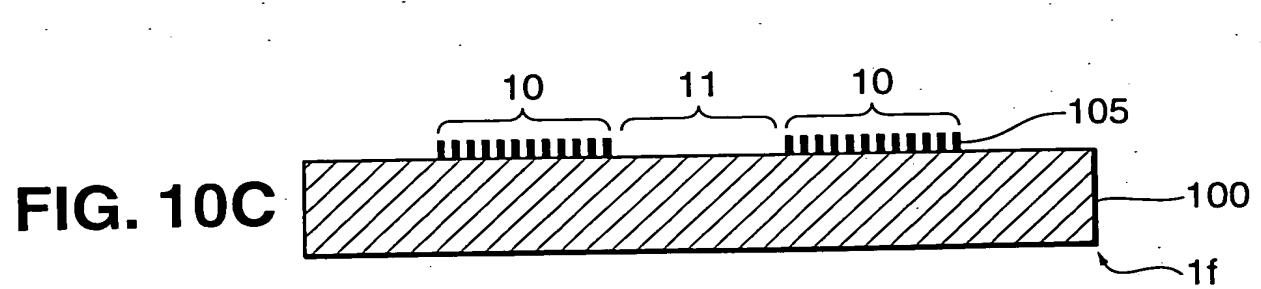
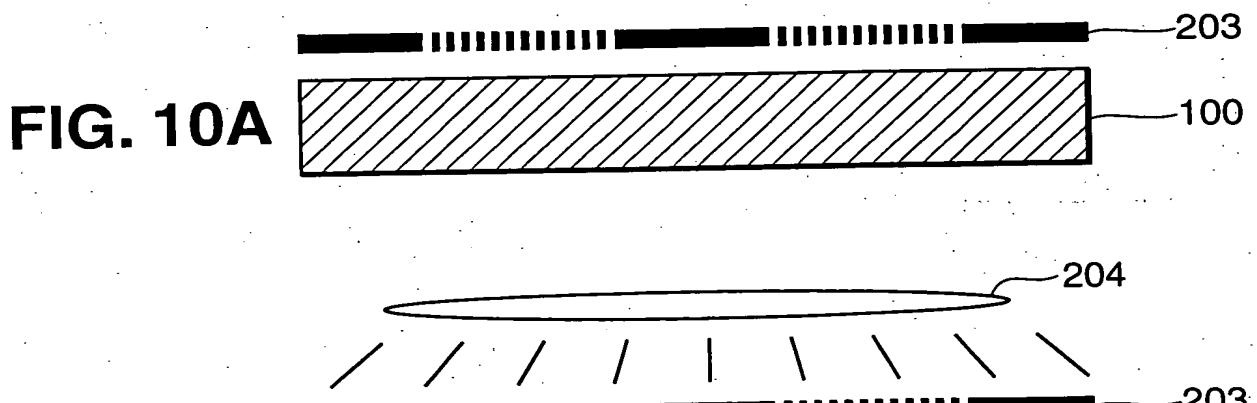
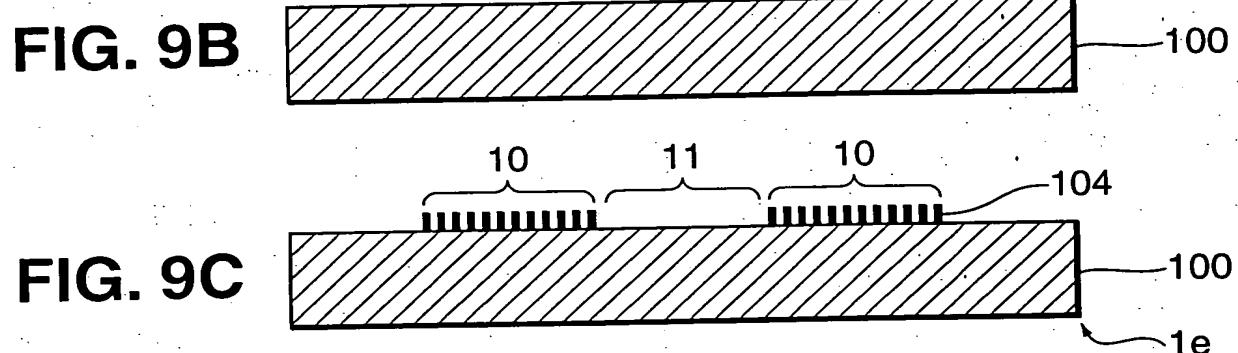
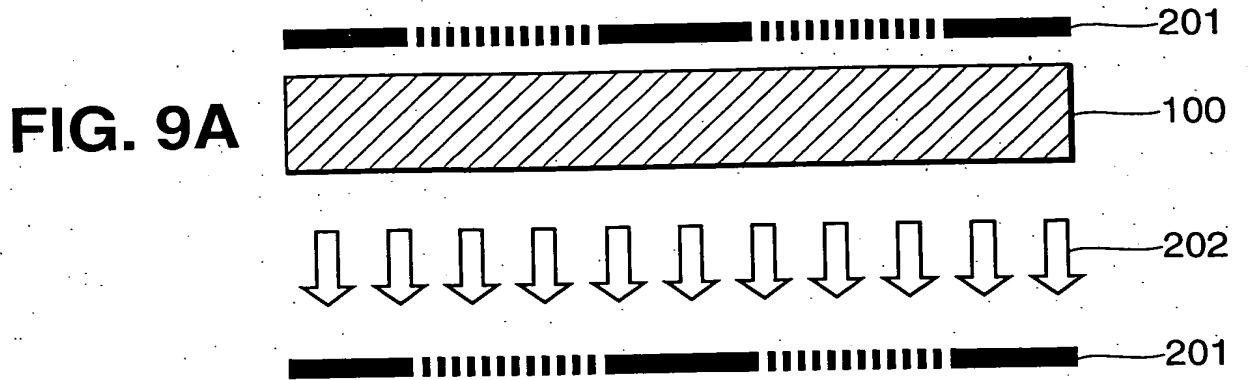


FIG. 8C



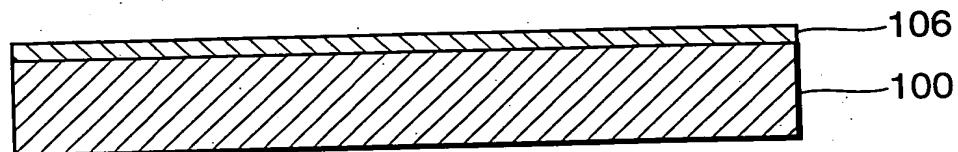


FIG. 11A

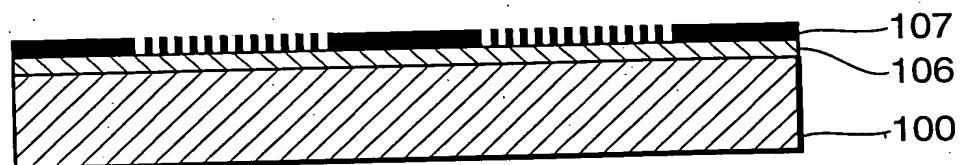


FIG. 11B

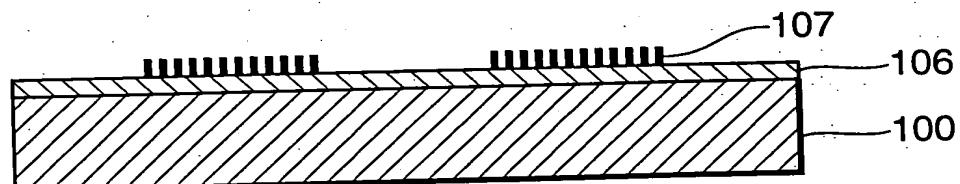


FIG. 11C

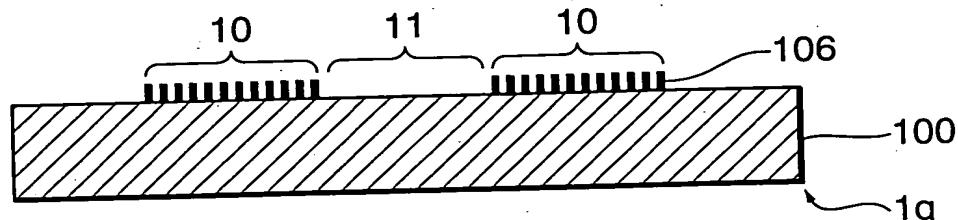


FIG. 11D

FIG. 12A

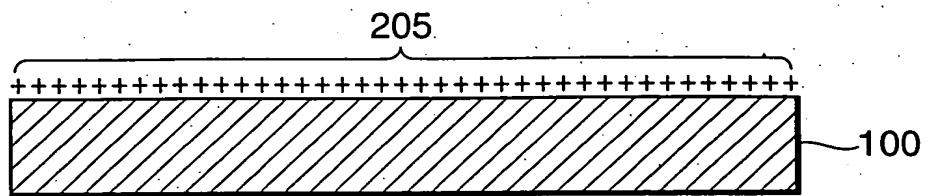


FIG. 12B

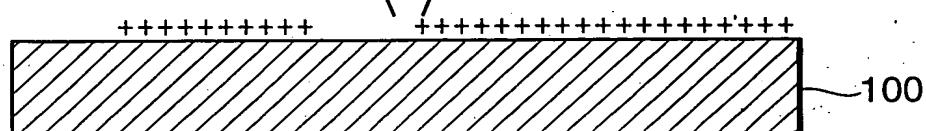


FIG. 12C

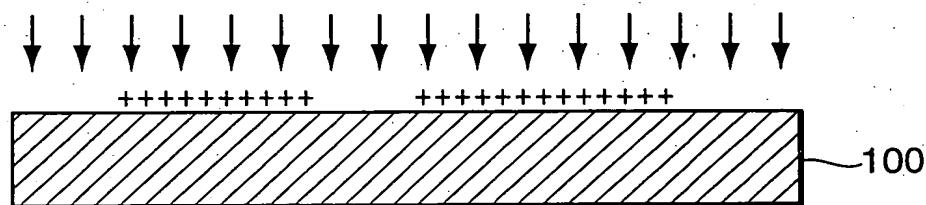


FIG. 12D

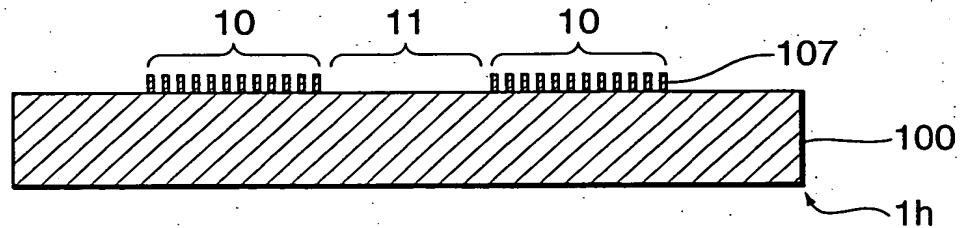


FIG. 13A

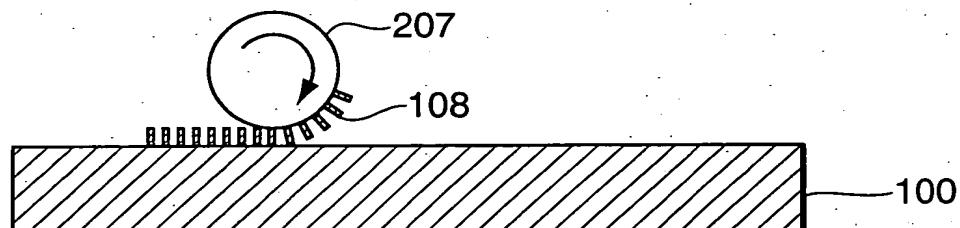


FIG. 13B

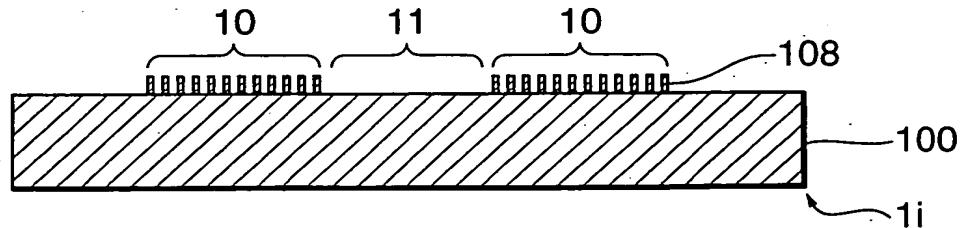
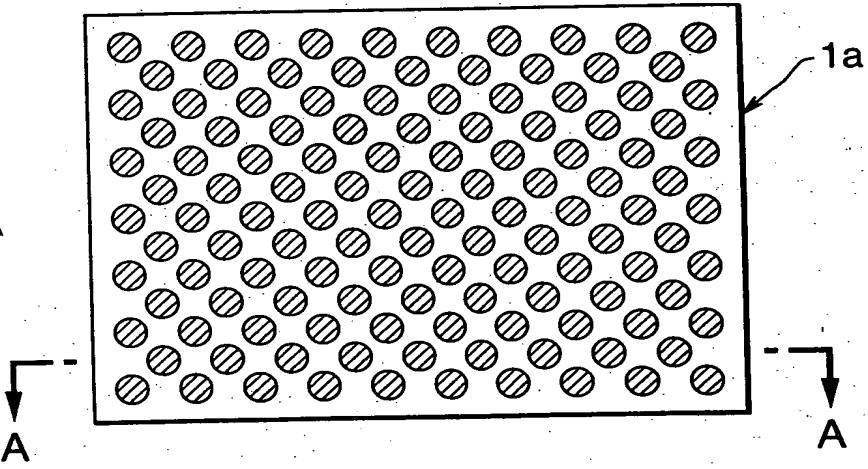


FIG.14A



- REGION 10 WHICH EXHIBITS AFFINITY
- REGION 11 WHICH DOES NOT EXHIBIT AFFINITY

FIG.14B

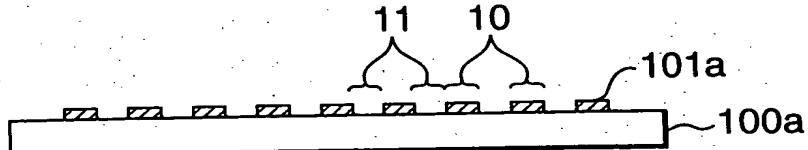


FIG.14C

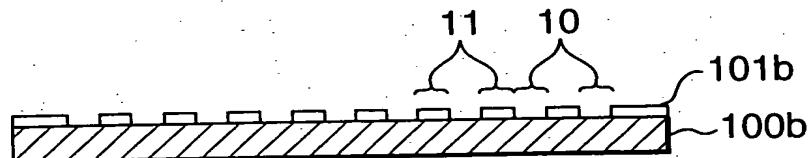
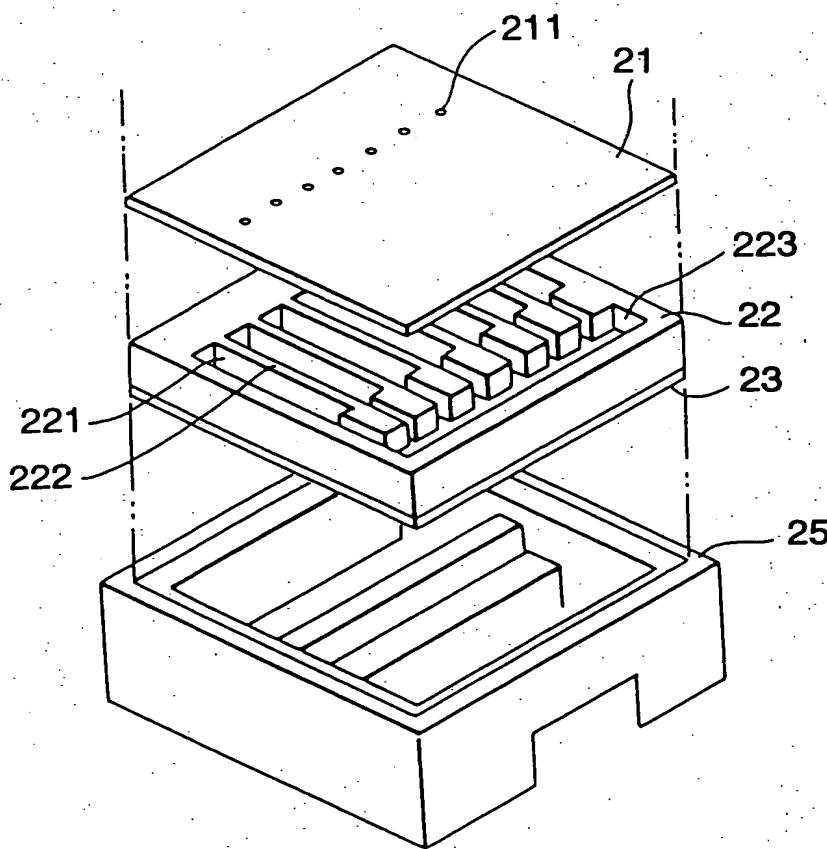


FIG.15



2: INK-JET-TYPE RECORDING HEAD

FIG.16

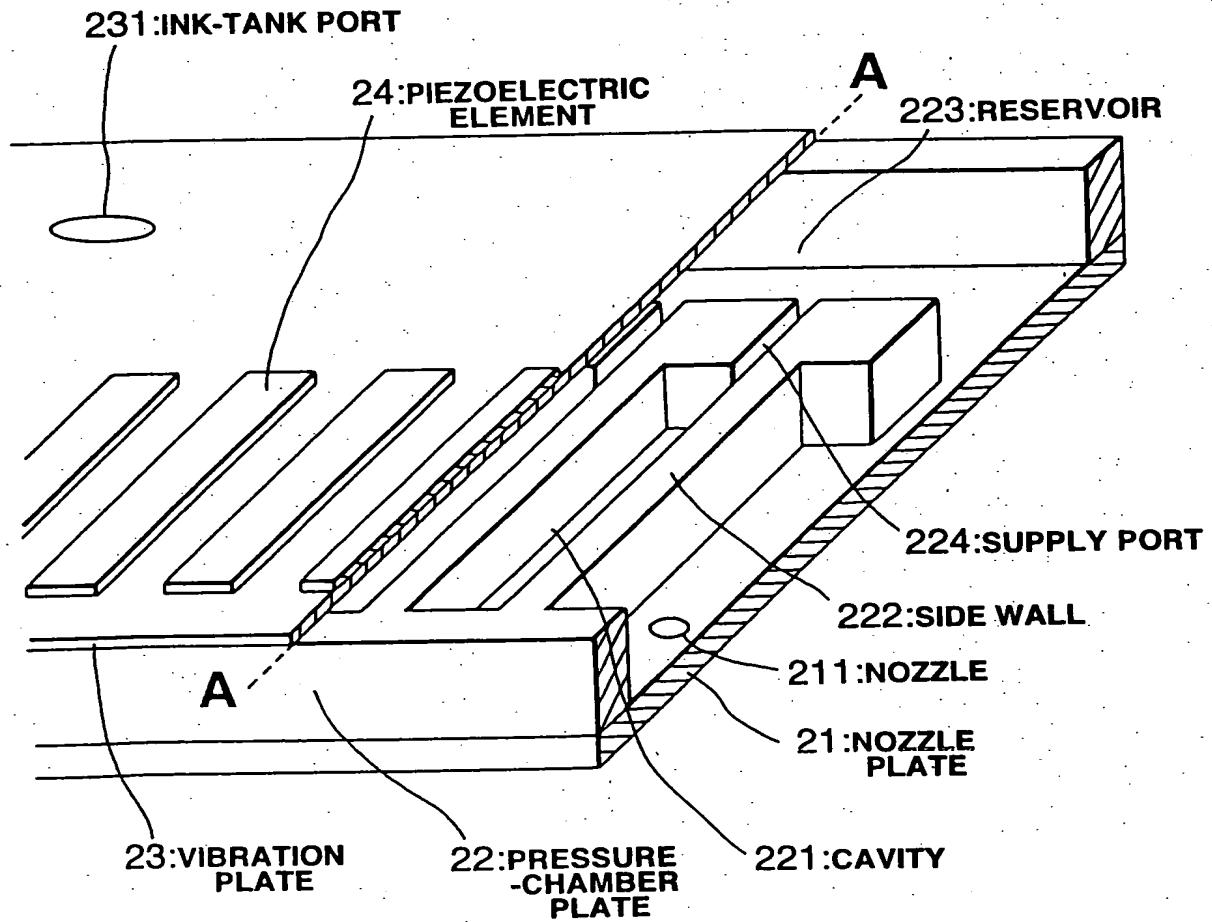


FIG.17

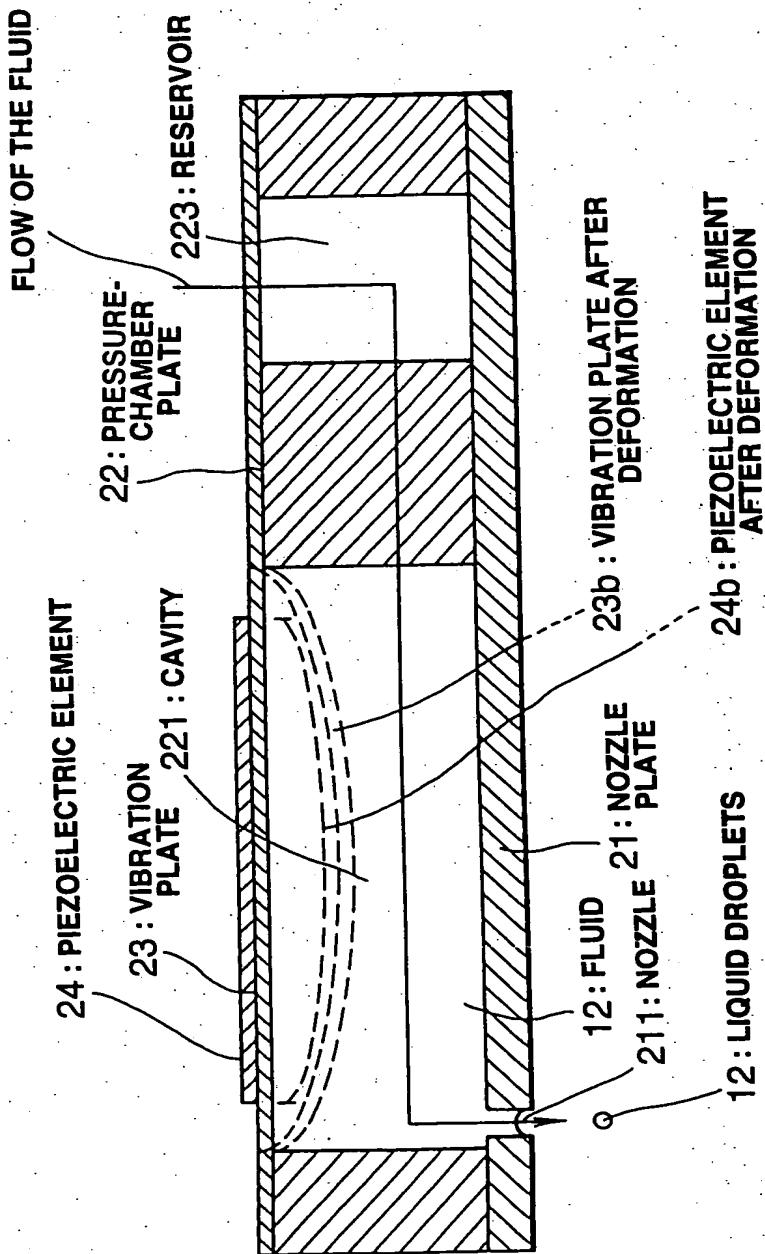


FIG.18A

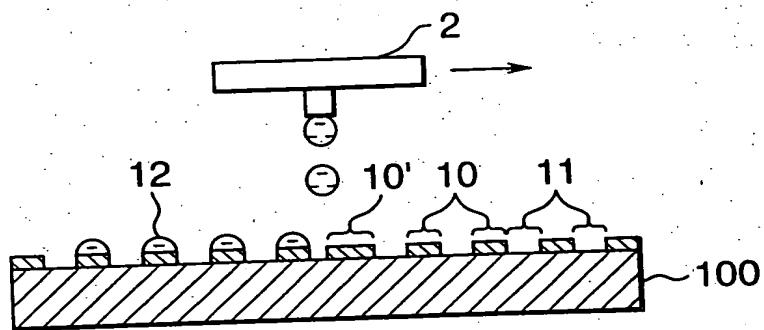


FIG.18B

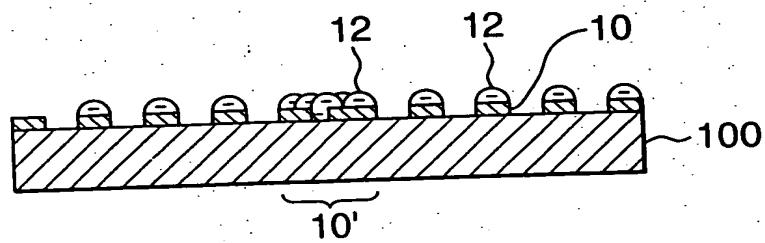
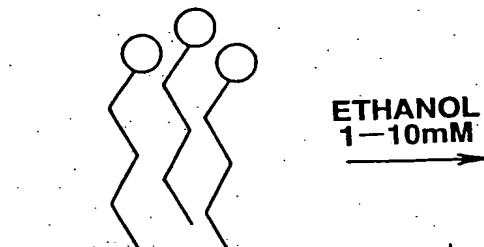


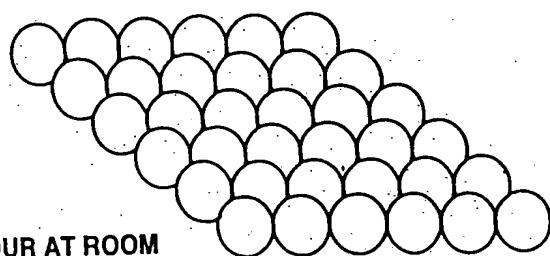
FIG.19A



ETHANOL
1–10mM

MOLECULES WITH THIOL
FUNCTIONAL GROUPS
ON THE METAL SURFACE

FIG.19B



1 HOUR AT ROOM
TEMPERATURE

FIG.19C

SELF-AGGREGATION
OF THIOL MOLECULES
ON THE METAL SURFACE

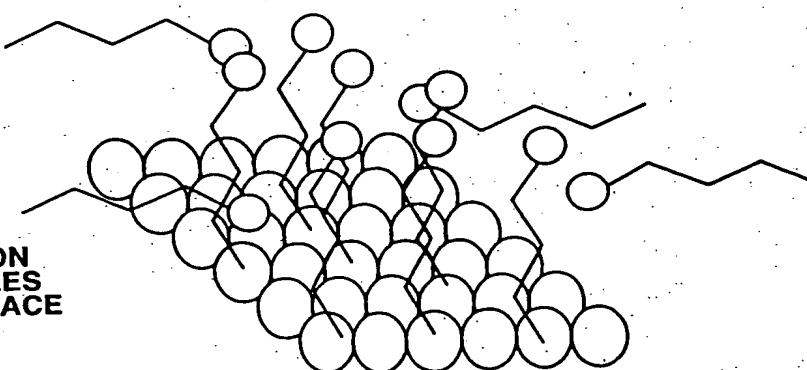


FIG.19D

TWO-DIMENSIONAL
MONO-MOLECULAR
FILM OF THIOL
MOLECULES

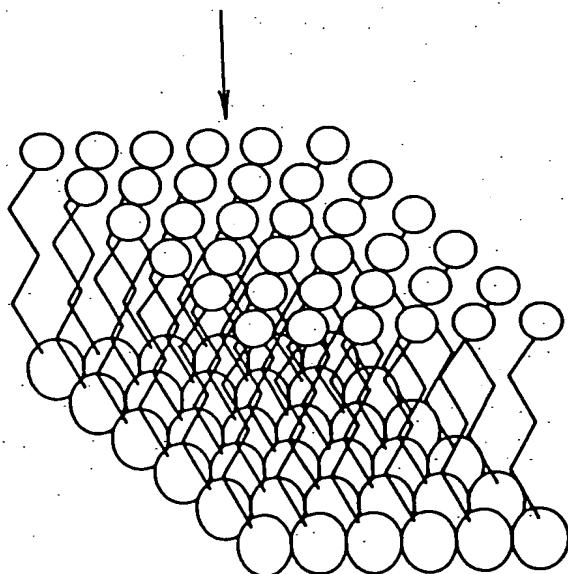


FIG.20A

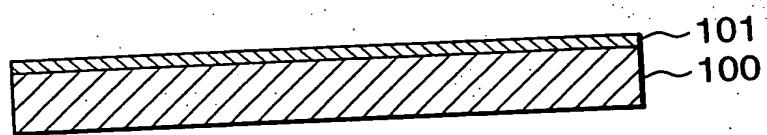


FIG.20B

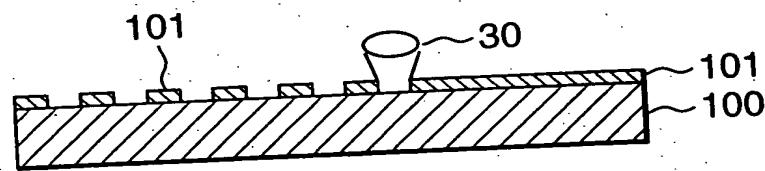


FIG.20C

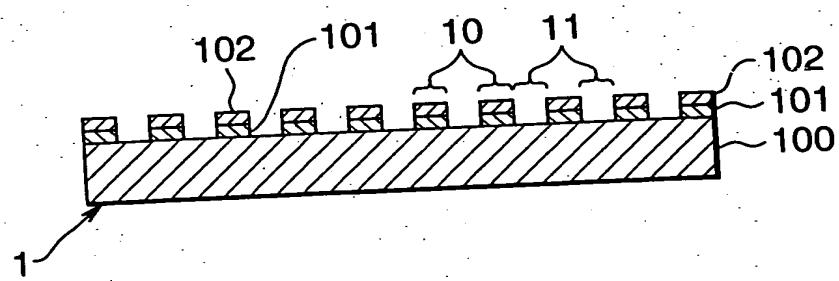


FIG.21A

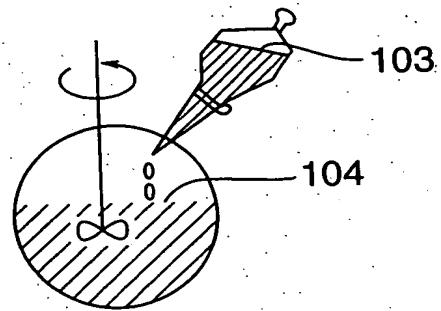


FIG.21B

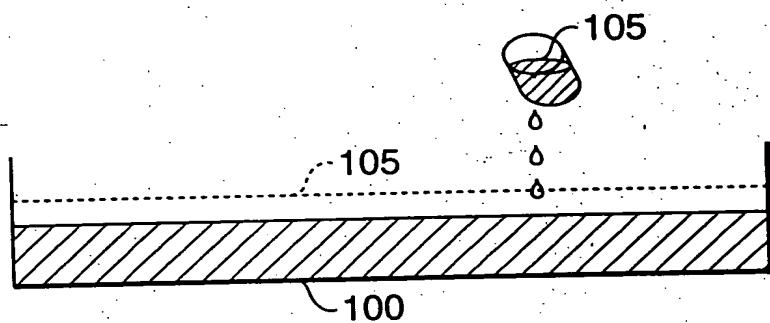


FIG.22A

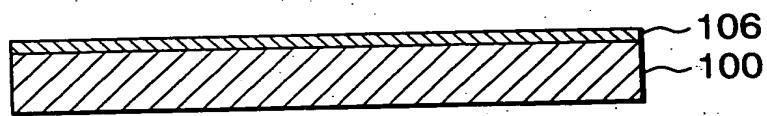


FIG.22B

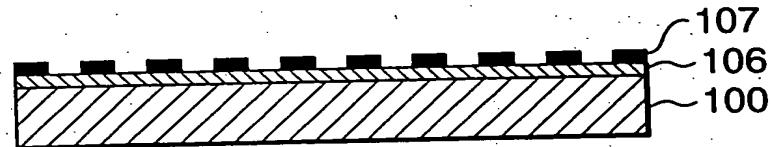


FIG.22C

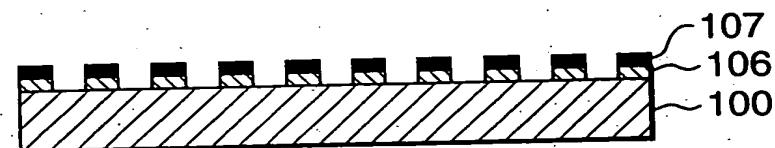


FIG.22D

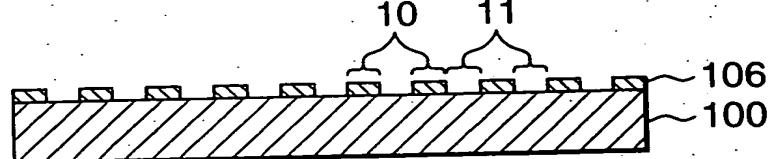


FIG.23A

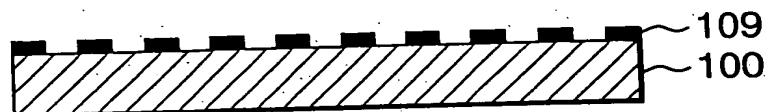


FIG.23B

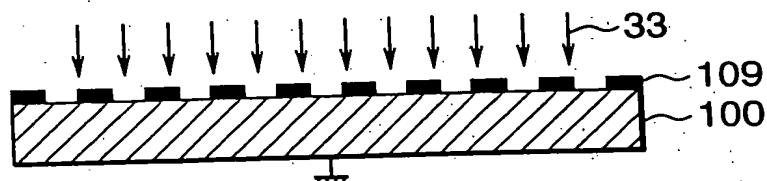


FIG.23C

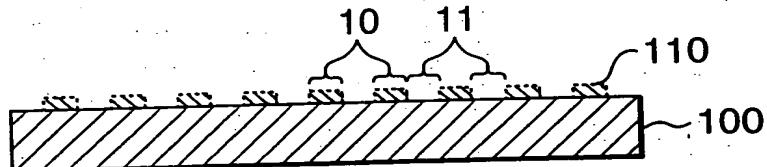


FIG.24A

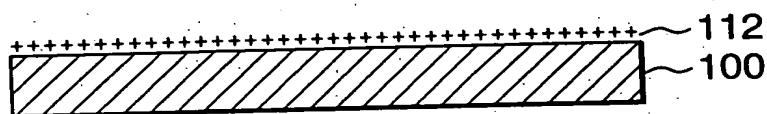


FIG.24B

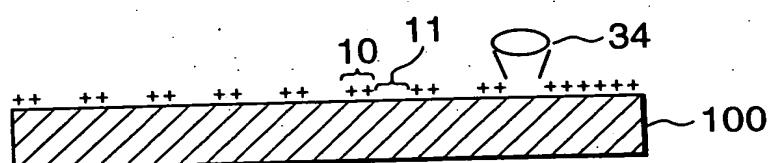


FIG.24C

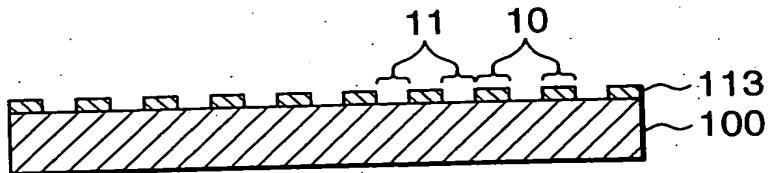


FIG.25A

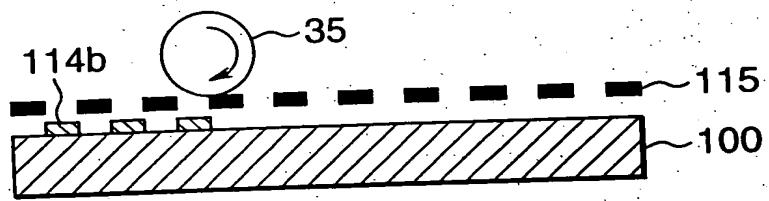


FIG.25B

